DEVICE AND METHOD FOR COLLECTING MOLTEN FLY ASH

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Applicant:

KYOWA EXEO CORP

Classification:

- international: B01D53/68; B01D46/02; B01D53/50; B01D53/81;

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(IPC1-7): B01D46/02; B01D53/50; B01D53/68;

B01D53/81

- European:

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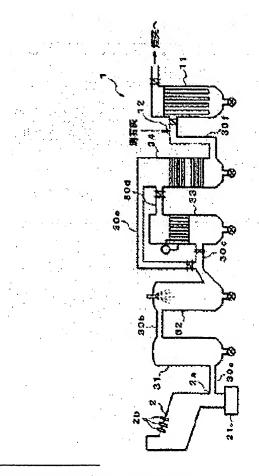
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Abstract of JP2005034695

PROBLEM TO BE SOLVED: To easily eliminate clogging of a filter cloth through backwashing.

SOLUTION: A molten fly ash collecting device is installed at the position on the downstream side of a line to emit exhaust gas generated in an ash melting furnace 2 into the atmosphere, and provided with a bag filter to collect molten fly ash contained in the exhaust gas. The filtering speed at a filter cloth of the bag filter 11 is set to be 0.4-0.7 m/min.

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ANSWER 19 OF 301 CA COPYRIGHT 2006 ACS on STN
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AN
     142:200601 CA
     Entered STN: 03 Mar 2005
ED
     Method and device for capturing melting flying ash
TI
     Kiribayashi, Toshimitsu; Ozawa, Saburo; Hashimoto, Eijiro; Yamada, Mitsuo;
IN
     Iwami, Tsuneo
PA
     Kyowa Exeo Corp., Japan
     Jpn. Kokai Tokkyo Koho, 13 pp.
SO
     CODEN: JKXXAF
DT
     Patent
LA
     Japanese
IC
     ICM B01D046-02
     ICS B01D053-50; B01D053-68; B01D053-81
     47-2 (Apparatus and Plant Equipment)
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     JP 2005034695
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                                             JP 2003-197704
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PRAI JP 2003-197704
CLASS
                 CLASS
                        PATENT FAMILY CLASSIFICATION CODES
 PATENT NO.
 JP 2005034695
                 ICM
                        B01D046-02
                        B01D053-50; B01D053-68; B01D053-81
                 ICS
                        B01D0046-02 [ICM,7]; B01D0053-50 [ICS,7]; B01D0053-68
                 IPCI
                        [ICS,7]; B01D0053-81 [ICS,7]
                       4D002/AA02; 4D002/AA19; 4D002/AB01; 4D002/AC10;
                 FTERM
                        4D002/BA03; 4D002/BA14; 4D002/CA11; 4D002/CA13;
                        4D002/DA05; 4D002/DA12; 4D002/EA02; 4D002/GA01;
                        4D002/GB01; 4D002/GB06; 4D002/GB12; 4D002/HA06;
                        4D058/JA04; 4D058/MA54; 4D058/NA10; 4D058/SA20;
                        4D058/TA02; 4D058/UA03; 4D058/UA10
     The method is characterized by being able to eliminate the filter clogging
AB
     using reversed washing. The fly ash, with an average
     particle size of 3.5-7.5 µm, from the waste gas of a
     combustion furnace is removed by using a bag filter. The gas flow rate is
     controlled at 0.4-0.7 m/min. Slaked lime of 1.5-2 times of the acid gas
     in the waste gas is added to the gas flow before the bag filter for
     neutralization.
     device capturing melting flying ash bag filter reversed washing
ST
IT
     Filters
        (bags; capturing melting flying ash from waste gas using
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France Combustin Fornace
has partial size 3.5-7.5 pm
well within applicate claimed range
of up to 10 pm.